Software Engineering SEM VII 2010/14

QP Code: MV-18185

(3 Hours) [Total Marks:100

N.B. (1) Question no. 1 is compulsory.

- (2) Attempt any four questions from the remaining six questions.
- (3) Assume suitable data if necessary.

Determine the cyclomatic complexity of the above problem and list different linearly independent paths using control flow graph.

(b) Compare waterfall model and spiral model.

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(c) What is Agility? Describe Extreme programming process?

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(d) What do you understand by process maturity?

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- 2. (a) Prepare software requirement specification (SRS) for course management system.
  - (b) Draw DFD (Level 0, 1 and 2) for above mentioned project, and explain.
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- 3. (a) Which life cycle model would you follow for developing following project and why. 10
  - (i) Library management system
  - (ii) Web application.
  - (b) List three common types of risks that a typical software project might suffer from. 10 Give the RMMM plan for the same.
- 4. (a) Describe the activities of project scheduling and tracking.

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- (b) What is quality assurance? Discuss various levels of quality assurance in software engineering.

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(d) Test driven development.